

Maryland HIV Epidemiological Profile Transgender Persons Supplement

Data reported through June 30, 2017

Center for HIV Surveillance, Epidemiology and Evaluation Infectious Disease Prevention and Health Services Bureau Prevention and Health Promotion Administration Maryland Department of Health http://phpa.health.maryland.gov/OIDEOR/CHSE 1-800-358-9001

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Section I – Background Information

Transgender People

This supplemental report provides detailed demographic and care data for HIV diagnosed transgender people in Maryland. For the purposes of this report, transgender people are defined as people who have a gender identity or gender expression that differs from their assigned sex at birth.

Transgender Men: people whose sex assigned at birth is female but whose gender identity is male.

Transgender Women: people whose sex assigned at birth is male but whose gender identity is female.

Additional Gender Identity: all other gender identities or gender expressions.

Gender Identity: refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

Gender Expression: people's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for transgender HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 12/31/2016. Historically, it has been difficult to fully present data by current gender identification. Data on transgender persons has been limited in the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS). No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender identity. This report is likely underreporting the number transgender HIV and AIDS cases because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

Nationally, it has been estimated that 15.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 15.3% of people living with HIV infection are undiagnosed. Transgender persons are at increased risk for HIV infection and research has shown markedly higher rates of HIV among transgender persons.

In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care and only includes information that has been reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of 12/31/2016. Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to cases for which there is a case report form or laboratory test received since 1/1/2009. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during the most recent eight and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from eHARS, June 30, 2017.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2015 HIV Surveillance Supplemental Report published July 2017. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

For additional information and national estimates please visit the Centers for Disease Control and Prevention's website: https://www.cdc.gov/hiv/group/gender/transgender/index.html

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

Sexual Contact: Persons who report a history of sexual contact with a person who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Sexual Contact /IDU: Persons who report a history of sexual contact with a person who is known to have an HIV infection or at high risk for an HIV infection who also have engaged in injection drug use.

Injection Drug Use (IDU): Persons who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Perinatal Exposure: Any baby born to an HIV positive mother.

Other Exposure: Persons who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates.

Additional Information:

For additional information on HIV/AIDS reporting requirements, assistance with HIV/AIDS reporting, the stages of an HIV/AIDS case, definitions of case terminology, and laboratory data, please see the Annual Maryland HIV Epidemiological Profile.

MDH Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

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Section II – Adult/Adolescent Transgender Persons Living with HIV by Jurisdiction

Table 1 – Adult/Adolescent Transgender Persons Diagnosed with HIV during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017

	ADOL		Linked t		DER PERSONS D Late HIV	First CD4 Test	
JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	No.	% of			Diagnoses	Result	
	1101	Total	% 1 mo.	% 3 mo.	%	%	Median Count
Allegany	0	0.0%					
Anne Arundel	1	5.3%	***	***	***	***	***
Baltimore City	10	52.6%	90.0%	100.0%	30.0%	100.0%	519
Baltimore	2	10.5%	***	***	***	***	***
Calvert	0	0.0%					
Caroline	0	0.0%					
Carroll	0	0.0%					
Cecil	0	0.0%					
Charles	0	0.0%					
Dorchester	1	5.3%	***	***	***	***	***
Frederick	1	5.3%	***	***	***	***	***
Garrett	0	0.0%					
Harford	0	0.0%					
Howard	0	0.0%					
Kent	0	0.0%					
Montgomery	0	0.0%					
Prince George's	3	15.8%	***	***	***	***	***
Queen Anne's	0	0.0%					
Saint Mary's	1	5.3%	***	***	***	***	***
Somerset	0	0.0%					
Talbot	0	0.0%					
Washington	0	0.0%					
Wicomico	0	0.0%					
Worcester	0	0.0%					
Corrections	0	0.0%					
TOTAL	19	100.0%	78.9%	89.5%	21.1%	84.2%	519

^{***} Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Adult/Adolescent Reported HIV Diagnoses: Reported transgender persons diagnosed with HIV, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 2 – Adult/Adolescent Transgender Persons with Diagnosed HIV Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis, Reported through 6/30/2017

	ADULT/ADOLESCENT TOTAL LIVING TRANSGENDER PERSONS WITH DIAGNOSED HIV									
JURISDICTION OF RESIDENCE AT DIAGNOSIS	HIV CASES W	/ITHOUT AIDS	HIV CASES	WITH AIDS	TOTAL LIVING	HIV CASES				
	No.	% of Total	No.	% of Total	No.	% of Total				
Allegany	0	0.0%	0	0.0%	0	0.0%				
Anne Arundel	6	4.3%	3	2.9%	9	3.7%				
Baltimore City	74	53.6%	54	52.4%	128	53.1%				
Baltimore	15	10.9%	7	6.8%	22	9.1%				
Calvert	0	0.0%	1	1.0%	1	0.4%				
Caroline	1	0.7%	0	0.0%	1	0.4%				
Carroll	0	0.0%	2	1.9%	2	0.8%				
Cecil	0	0.0%	0	0.0%	0	0.0%				
Charles	2	1.4%	1	1.0%	3	1.2%				
Dorchester	1	0.7%	1	1.0%	2	0.8%				
Frederick	1	0.7%	0	0.0%	1	0.4%				
Garrett	0	0.0%	0	0.0%	0	0.0%				
Harford	0	0.0%	2	1.9%	2	0.8%				
Howard	0	0.0%	0	0.0%	0	0.0%				
Kent	0	0.0%	0	0.0%	0	0.0%				
Montgomery	5	3.6%	10	9.7%	15	6.2%				
Prince George's	21	15.2%	14	13.6%	35	14.5%				
Queen Anne's	0	0.0%	0	0.0%	0	0.0%				
Saint Mary's	1	0.7%	1	1.0%	2	0.8%				
Somerset	1	0.7%	0	0.0%	1	0.4%				
Talbot	0	0.0%	0	0.0%	0	0.0%				
Washington	1	0.7%	1	1.0%	2	0.8%				
Wicomico	2	1.4%	1	1.0%	3	1.2%				
Worcester	0	0.0%	0	0.0%	0	0.0%				
Corrections	7	5.1%	5	4.9%	12	5.0%				
TOTAL	138	100.0%	103	100.0%	241	100.0%				

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at late time of initial HIV diagnosis or time of initial AIDS diagnosis.

Adult/Adolescent Living HIV Cases without AIDS: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year. **Adult/Adolescent Total Living HIV Cases:** Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 3 – CD4 Test Results during 2016 for Adult/Adolescent Transgender Persons with Diagnosed HIV Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

	ADULI	r/Adolesci	ENT T OTAL L	IVING TRANS	SGENDER P	ERSONS WITH	H DIAGNOSED	HIV
				Recent	CD4 Test	Result		
JURISDICTION OF CURRENT RESIDENCE	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	0							
Anne Arundel	10	6	60.0%	511	0.0%	33.3%	16.7%	50.0%
Baltimore City	129	75	58.1%	499	18.7%	13.3%	18.7%	49.3%
Baltimore	27	16	59.3%	701	6.3%	12.5%	12.5%	68.8%
Calvert	2	***	***	***	***	***	***	***
Caroline	0							
Carroll	1	***	***	***	***	***	***	***
Cecil	0							
Charles	3	***	***	***	***	***	***	***
Dorchester	3	***	***	***	***	***	***	***
Frederick	2	***	***	***	***	***	***	***
Garrett	0							
Harford	4	***	***	***	***	***	***	***
Howard	0							
Kent	0							
Montgomery	11	9	81.8%	587	0.0%	11.1%	11.1%	77.8%
Prince George's	41	29	70.7%	559	3.4%	17.2%	13.8%	65.5%
Queen Anne's	0							
Saint Mary's	2	***	***	***	***	***	***	***
Somerset	0							
Talbot	0							
Washington	3	***	***	***	***	***	***	***
Wicomico	1	***	***	***	***	***	***	***
Worcester	0							
Corrections	11	6	54.5%	542	0.0%	16.7%	16.7%	66.7%
TOTAL	250	154	61.6%	544	11.7%	14.3%	16.2%	57.8%

^{***} Data withheld due to low population counts and/or case counts

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Adult/Adolescent Total Living HIV Cases: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year. **Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 4 – Viral Load Test Results during 2016 for Adult/Adolescent Transgender Persons with Diagnosed HIV Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

	ADULT/ADOLESCENT TOTAL LIVING TRANSGENDER PERSONS WITH DIAGNOSED HIV								
JURISDICTION OF CURRENT RESIDENCE		Recent Viral Load Test Result							
JUNISDICTION OF GUNRENT RESIDENCE	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed				
Allegany	0								
Anne Arundel	10	6	60.0%	33.3%	6,652				
Baltimore City	129	78	60.5%	52.6%	9,090				
Baltimore	27	20	74.1%	60.0%	895				
Calvert	2	***	***	***	***				
Caroline	0								
Carroll	1	***	***	***	***				
Cecil	0								
Charles	3	***	***	***	***				
Dorchester	3	***	***	***	***				
Frederick	2	***	***	***	***				
Garrett	0								
Harford	4	***	***	***	***				
Howard	0								
Kent	0								
Montgomery	11	10	90.9%	70.0%	11,500				
Prince George's	41	29	70.7%	75.9%	14,390				
Queen Anne's	0								
Saint Mary's	2	***	***	***	***				
Somerset	0								
Talbot	0								
Washington	3	***	***	***	***				
Wicomico	1	***	***	***	***				
Worcester	0								
Corrections	11	7	63.6%	28.6%	11,500				
Total	250	164	65.6%	56.7%	10,080				

^{***} Data withheld due to low population counts and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year. **Jurisdiction of Current Residence:** Jurisdiction of residence from the most recent report since 1/1/2009.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

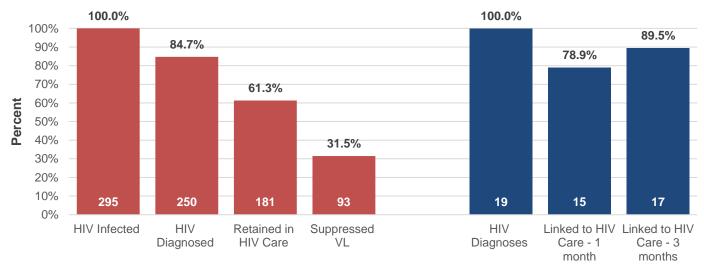
Section III – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.¹ utilize a continuum of care "cascade" to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 1 – Prevalence-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Transgender Persons Living in Maryland, Reported through 6/30/2017

The prevalence-based Maryland Engagement in HIV Care Cascade (below) uses the most recent Centers for Disease Control and Prevention (CDC) estimate of the number of undiagnosed persons in Maryland (15.3%)² to generate an estimated number of HIV infected persons currently residing in Maryland. It then uses Maryland surveillance data to describe the number and percentage of transgender persons living with HIV in Maryland on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.

Prevalence-Based Estimated Percentage of HIV Infected Transgender Persons Engaged in Selected Stages of the Continuum of Care, Current Residents 2016



Among Current Maryland Residents

Among those diagnosed in 2016

Continuum of Care Stage	Living H	IIV Cases	Continuum of Caro Stage	New Diagnoses		
Continuum of Care Stage	Number	Percentage	Continuum of Care Stage	Number	Percentage	
HIV Infected	295	100.0%	New HIV Diagnoses	19	100.0%	
HIV Diagnosed	250	84.7%	Linked to HIV Care – 1 Month	15	78.9%	
Retained in HIV Care	181	61.3%	Linked to HIV Care – 3 Months	17	89.5%	
Suppressed VL	93	31.5%				

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (15.3%) in Maryland. **HIV Diagnosed:** Adult/adolescent total living transgender persons diagnosed with HIV as of December 31st of the specified year.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year. **Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

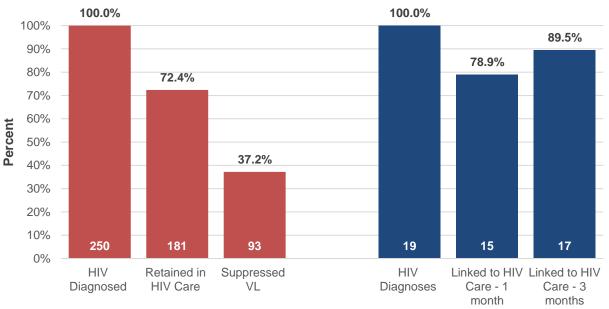
¹ Gardner et al, "The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection." Clin Infect Dis. 2011; 52 (6): 793-800.

²Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2015. HIV Surveillance Supplemental Report 2017;22(No. 2). http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html. Published July 2017.

Figure 2 – Diagnosis-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Transgender Persons Living in Maryland, Reported through 6/30/2017

The diagnosis-based Maryland Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Maryland residents to describe the number and percentage of transgender persons living with HIV in Maryland on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.





Among Current Maryland Residents

Among those diagnosed in 2016

Continuum of Care Stage	Living H	IIV Cases	Continuum of Care Stage	New Diagnoses		
Continuum of Care Stage	Number	Percentage	Continuum of Care Stage	Number	Percentage	
HIV Diagnosed	250	100.0%	New HIV Diagnoses	19	100.0%	
Retained in HIV Care	181	72.4%	Linked to HIV Care – 1 Month	15	78.9%	
Suppressed VL	93	37.2%	Linked to HIV Care – 3 Months	17	89.5%	

HIV Diagnosed: Adult/adolescent total living transgender persons diagnosed with HIV as of December 31st of the specified year with a recent address in Maryland since 2009.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year. **Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Section IV – Adult/Adolescent Cases by Demographics

Table 5 – Adult/Adolescent Transgender Persons Diagnosed with HIV during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Gender, Race/Ethnicity, Age at HIV Diagnosis and Exposure Category, Reported through 6/30/2017

	ADULT/ADOLESCENT REPORTED TRANSGENDER PERSONS DIAGNOSED WITH HIV									
DEMOGRAPHIC CHARACTERISTICS	No.	% of	Linked to	Care	Late HIV Diagnoses	First CI Res	D4 Test sult			
	No. Total		% 1 mo.	% 3 mo.	%	%	Median Count			
Gender										
Transgender Women	18	94.7%	77.8%	88.9%	22.2%	83.3%	502			
Transgender Men	1	5.3%	***	***	***	***	***			
Additional Gender Identity	0	0.0%								
Age at HIV Diagnosis										
13-19	1	5.3%	***	***	***	***	***			
20-29	12	63.2%	66.7%	83.3%	16.7%	83.3%	519			
30-39	5	26.3%	100.0%	100.0%	0.0%	80.0%	746			
40-49	0	0.0%								
50-59	0	0.0%								
60+	1	5.3%	***	***	***	***	***			
Race/Ethnicity										
Hispanic	2	10.5%	***	***	***	***	***			
Non-Hispanic	17	89.5%	76.5%	88.2%	23.5%	82.4%	467			
American Indian/Alaska Native, only	0	0.0%								
Asian, only	0	0.0%								
Black, only	15	78.9%	86.7%	93.3%	26.7%	80.0%	467			
Native Hawaiian/Other Pacific Islander, only	0	0.0%								
White, only	2	10.5%	***	***	***	***	***			
Multiracial/Other	0	0.0%								
Exposure Category*										
Sexual Contact	15	93.8%	80.0%	93.3%	26.7%	86.7%	502			
Injection Drug Use	0	0.0%								
Sexual Contact and Injection Drugs	1	6.7%	***	***	***	***	***			
Other Exposure	0	0.0%								
No Reported Exposure	3		***	***	***	***	***			
TOTAL	19	100.0%	78.9%	89.5%	21.1%	84.2%	519			

^{*} Percent of the total with exposure

Adult/Adolescent Reported HIV Diagnoses: Reported transgender persons diagnosed with HIV, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

^{***} Data withheld due to low population counts and/or case counts

Table 6 – Adult/Adolescent Transgender Persons with Diagnosed HIV Alive on 12/31/2016, by Gender, Race/Ethnicity, Age on 12/31/2016 and Exposure Category, Reported through 6/30/2017

DEMOCRAPHIC CHARACTERISTICS	ADULT/ADOLESCENT TOTAL I	LIVING TRANSGENDER PERSO	ONS WITH DIAGNOSED HIV
DEMOGRAPHIC CHARACTERISTICS	No.	% of Total	% Living with AIDS
Gender			
Male-to-Female	178	71.2%	39.3%
Female-to-Male	71	28.4%	56.3%
Additional Gender Identity	1	0.4%	100.0%
Age on 12/31/2016**			
13-19	0	0.0%	0.0%
20-29	86	33.9%	22.1%
30-39	84	33.1%	45.2%
40-49	43	16.9%	51.2%
50-59	28	11.0%	78.6%
60+	13	5.1%	92.3%
Race/Ethnicity			
Hispanic	32	12.8%	50.0%
Non-Hispanic	218	87.2%	43.6%
American Indian/Alaska Native, only	0	0.0%	0.0%
Asian, only	0	0.0%	0.0%
Black, only	190	76.0%	42.6%
Native Hawaiian/Other Pacific Islander, only	0	0.0%	0.0%
White, only	13	5.2%	38.5%
Multiracial/Other	15	6.0%	60.0%
Exposure Category*			
Sexual Contact	187	83.9%	39.2%
Injection Drug Use	17	7.6%	82.4%
Sexual Contact and Injection Drugs	19	8.5%	68.4%
Other Exposure	0	0.0%	0.0%
No Reported Exposure	27		37.0%
TOTAL	250	100.0%	44.4%

^{*}Percent of the total with exposure

Adult/Adolescent Total Living HIV Cases: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year. **Percent Living with AIDS:** The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

^{**}Includes current age for cases diagnosed <13 years old

Table 7 – CD4 Test Results during 2016 for Adult/Adolescent Transgender Persons with Diagnosed HIV Alive on 12/31/2016, by Gender, Race/Ethnicity, Age on 12/31/2016 and Exposure Category, Reported through 6/30/2017

	ADULT/	Adolesce	NT TOTAL L	IVING TRANS			H DIAGNOS	ED HIV
DEMOGRAPHIC CHARACTERISTICS	No.	No. with Test	% with Test	Median Count	<200	200- 349	350- 499	500+
Gender								
Transgender Women	178	108	60.7%	540	11.1%	13.9%	16.7%	58.3%
Transgender Men	71	46	64.8%	555	13.0%	15.2%	15.2%	56.5%
Additional Gender Identity	1	***	***	***	***	***	***	***
Age on 12/31/2016								
13-19	0							
20-29	82	45	54.9%	604	13.3%	8.9%	11.1%	66.7%
30-39	84	57	67.9%	525	10.5%	21.1%	17.5%	50.9%
40-49	43	25	58.1%	514	12.0%	8.0%	24.0%	56.0%
50-59	28	17	60.7%	506	11.8%	11.8%	23.5%	52.9%
60+	13	10	76.9%	668	10.0%	20.0%	0.0%	70.0%
Race/Ethnicity								
Hispanic	32	26	81.3%	511	7.7%	19.2%	15.4%	57.7%
Non-Hispanic	218	128	58.7%	556	12.5%	13.3%	16.4%	57.8%
American Indian/Alaska Native, only	0							
Asian, only	0							
Black, only	190	108	56.8%	555	12.0%	13.9%	15.7%	58.3%
Native Hawaiian/Other Pacific Islander, only	0							
White, only	13	8	61.5%	826	0.0%	12.5%	12.5%	75.0%
Multiracial/Other	15	12	80.0%	496	25.0%	8.3%	25.0%	41.7%
Exposure Category								
Sexual Contact	187	115	61.5%	556	13.0%	13.0%	15.7%	58.3%
Injection Drug Use	17	11	64.7%	508	9.1%	9.1%	27.3%	54.5%
Sexual Contact and Injection Drugs	19	12	63.2%	502	16.7%	8.3%	25.0%	50.0%
Other Exposure	0							
No Reported Exposure	27	16	59.3%	576	0.0%	31.3%	6.3%	62.5%
TOTAL	250	154	61.6%	544	11.7%	14.3%	16.2%	57.8%

Adult/Adolescent Total Living HIV Cases: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year. **Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 8 – Viral Load Test Results during 2016 for Adult/Adolescent Transgender Persons with Diagnosed HIV Alive on 12/31/2016, by Gender, Race/Ethnicity, Age on 12/31/2016 and Exposure Category, Reported through 6/30/2017

	ADULT/ADOLES	SCENT TOTAL LIV	ING TRANSGENDE	R PERSONS WITH	DIAGNOSED HIV		
DEMOGRAPHIC CHARACTERISTICS		Recent Viral Load Test Result					
DEMOGRAFING CHARACTERISTICS	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed		
Gender							
Transgender Women	178	117	65.7%	52.1%	7,475		
Transgender Men	71	46	64.8%	69.6%	20,701		
Additional Gender Identity	1	***	***	***	***		
Age on 12/31/2016							
13-19	0						
20-29	82	56	68.3%	41.1%	10,920		
30-39	84	59	70.2%	54.2%	15,556		
40-49	43	25	58.1%	72.0%	1,264		
50-59	28	15	53.6%	73.3%	6,440		
60+	13	9	69.2%	100.0%			
Race/Ethnicity							
Hispanic	32	22	68.8%	54.5%	15,115		
Non-Hispanic	218	142	65.1%	57.0%	9,914		
American Indian/Alaska Native, only	0						
Asian, only	0						
Black, only	190	123	64.7%	54.5%	9,502		
Native Hawaiian/Other Pacific Islander, only	0						
White, only	13	7	53.8%	85.7%	141,340		
Multiracial/Other	15	12	80.0%	66.7%	23,116		
Exposure Category							
Sexual Contact	187	127	67.9%	53.5%	13,919		
Injection Drug Use	17	10	58.8%	50.0%	1,380		
Sexual Contact and Injection Drugs	19	10	52.6%	90.0%	1,826		
Other Exposure	0						
No Reported Exposure	27	17	63.0%	64.7%	9,250		
TOTAL	250	164	65.6%	56.7%	10,080		

Adult/Adolescent Total Living HIV Cases: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year. **Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

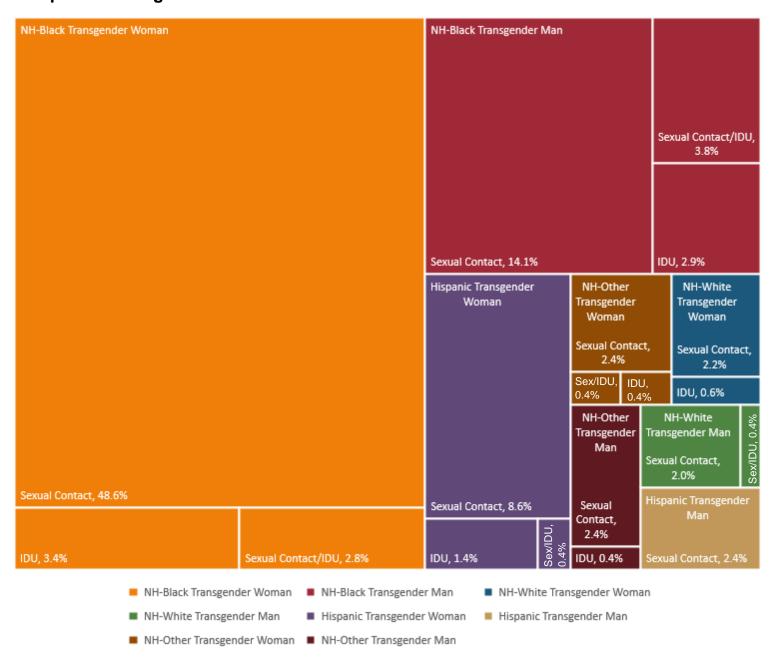
Table 9 – Adult/Adolescent Transgender Persons with Diagnosed HIV, by Exposure Category and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

	Adu	LT/ADOLESCENT TO	TAL LIVING TRA	ANSGENDER PERSON	IS WITH DIAGN	NOSED HIV						
		Race/Ethnicity										
Exposure Category	Hi	ispanic	Non-Hispa	nic, Black, only	Non-Hispa	anic, White, only						
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure						
With Exposure	30	100.0%	167	100.0%	10	100.0%						
Sexual Contact	26	86.7%	140	83.3%	9	90.0%						
Injection Drug Use	***	***	12	7.1%	***	***						
Sexual Contact and Injection Drugs	***	***	16	9.5%	***	***						
Other Exposures	0	0.0%	0	0.0%	0	0.0%						
No Reported Exposure	2		22		3							
TOTAL	32		190		13							

^{***} Data withheld due to low population counts and/or case counts

Adult/Adolescent Total Transgender Living HIV Cases: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Figure 3 – Proportion of Adult/Adolescent Transgender Persons with Diagnosed HIV, by Estimated Exposure Category, Race/Ethnicity, and Gender, Alive on 12/31/2016, Reported through 6/30/2017



Additional Gender Identity not shown (<1%)

Multiple imputation was used to estimate and adjust for missing transmission category

Sexual Contact: Persons who report a history of sexual contact with a person who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Sexual Contact /IDU: Persons who report a history of sexual contact with a person who is known to have an HIV infection or at high risk for an HIV infection who also have engaged in injection drug use.

Injection Drug Use (IDU): Persons who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Other Exposure: Persons who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Table 10 – Engagement in Care for Adult/Adolescent Transgender Persons with Diagnosed HIV Alive on 12/31/2016, by Gender, Race/Ethnicity, Age on 12/31/2016 and Exposure Category, Reported through 6/30/2017

Demographic Characteristics	Adult/Adolescent Total Living Transgender Persons with Diagnosed HIV										
	No.	Linked to Care - Ever		Linked to Care - 3 Months		Retained in Care - 2016		Viral Suppression - Ever		Viral Suppression - Recent Viral Load	
		No.	%	No.	%	No.	%	No.	%	No.	%
Gender											
Transgender Women	178	172	96.6%	111	62.4%	130	73.0%	110	61.8%	61	34.3%
Transgender Men	71	68	95.8%	34	47.9%	50	70.4%	53	74.6%	32	45.1%
Additional Gender Identity	1	1	100.0%	0	0.0%	1	100.0%	1	100.0%	0	0.0%
Age on 12/31/2016**											
13-19	0										
20-29	86	82	95.3%	52	60.5%	63	73.3%	44	51.2%	25	29.1%
30-39	84	83	98.8%	52	61.9%	65	77.4%	55	65.5%	32	38.1%
40-49	43	40	93.0%	22	51.2%	27	62.8%	37	86.0%	18	41.9%
50-59	28	27	96.4%	13	46.4%	18	64.3%	21	75.0%	11	39.3%
60+	13	13	100.0%	6	46.2%	11	84.6%	11	84.6%	9	69.2%
Race/Ethnicity											
Hispanic	32	31	96.9%	23	71.9%	27	84.4%	19	59.4%	12	37.5%
Non-Hispanic	218	210	96.3%	122	56.0%	154	70.6%	145	66.5%	81	37.2%
American Indian/Alaska Native, only	0										
Asian, only	0										
Black, only	190	182	95.8%	103	54.2%	133	70.0%	123	64.7%	67	35.3%
Native Hawaiian/Other Pacific Islander, only	0										
White, only	13	13	100.0%	9	69.2%	8	61.5%	10	76.9%	6	46.2%
Multiracial/Other	15	15	100.0%	10	66.7%	13	86.7%	12	80.0%	8	53.3%
Exposure Category											
Sexual Contact	187	183	97.9%	113	60.4%	138	73.8%	118	63.1%	68	36.4%
Injection Drug Use	17	17	100.0%	6	35.3%	14	82.4%	16	94.1%	5	29.4%
Sexual Contact and Injection Drugs	19	18	94.7%	9	47.4%	12	63.2%	13	68.4%	9	47.4%
Other Exposure	0										
No Reported Exposure	27	23	85.2%	17	63.0%	17	63.0%	17	63.0%	11	40.7%
TOTAL	250	241	96.4%	145	58.0%	181	72.4%	164	65.6%	93	37.2%

^{**}Includes current age for cases diagnosed <13 years old

Adult/Adolescent Total Transgender Living HIV Cases: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Linked to Care – Ever: Number and percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed.

Linked to HIV Care – 3 months: Number and percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

Viral Suppression - Ever: HIV Diagnosed with at least one reported viral load of less than 200 copies per milliliter.

Viral Suppression – Recent Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported transgender persons diagnosed with HIV, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Transgender Living HIV Cases: Reported transgender persons with diagnosed HIV, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

HIV Diagnosed: Adult/adolescent total living transgender persons diagnoses with HIV as of December 31st of the specified year.

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (15.3%) in Maryland.

Injection Drug Use (IDU): Persons who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at late time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Linked to Care – Ever: Number and percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Other Exposure: Persons who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

Sexual Contact /IDU: Persons who report a history of sexual contact with a person who is known to have an HIV infection or at high risk for an HIV infection who also have engaged in injection drug use.

Sexual Contact: Persons who report a history of sexual contact with a person who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Viral Suppression – Ever: HIV Diagnosed with at least one reported viral load of less than 200 copies per milliliter.

Viral Suppression – Recent Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 or viral load test result.